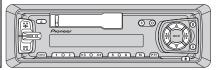
Pioneer

Service Manual

KEH-P4830R/X1M/EW



ORDER NO. CRT2258

MULTI-CD CONTROL HIGH POWER CASSETTE PLAYER WITH RDS TUNER

KEH-P4830R KEH-P4800R X1M/EW

X1M/EW

NOTE:

- See the separate manual CX-631(CRT1640) for the cassette mechanism description.
- The cassette mechanism assy employed in this model is one of 2L series.
- This service manual does not describe the CD test mode.
 For the operations in the CD test mode, refer to the CD player's Service Manual.

CONTENTS

1. SAFETY INFORMATION	2	7. GENERAL INFORMATION	38
2. EXPLODED VIEWS AND PARTS LIST	2	7.1 PARTS	38
3. SCHEMATIC DIAGRAM	8	7.1.1 IC	38
4. PCB CONNECTION DIAGRAM	20	7.1.2 DISPLAY	42
5. ELECTRICAL PARTS LIST	30	7.2 DISASSEMBLY	43
6. ADJUSTMENT	36	7.3 BLOCK DIAGRAM	44
		8. OPERATIONS AND SPECIFICATIONS	45

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4-1, Meguro 1-Chome, Meguro-ku, Tokyo 153-8654, Japan PIONEER ELECTRONICS SERVICE INC.
P.O.Box 1760, Long Beach, CA 90801-1760 U.S.A.
PIONEER ELECTRONIC [EUROPE] N.V. Haven 1087 Keetberglaan 1, 9120 Melsele, Belgium
PIONEER ELECTRONICS ASIACENTRE PTE.LTD. 501 Orchard Road, #10-00, Wheelock Place, Singapore 238880

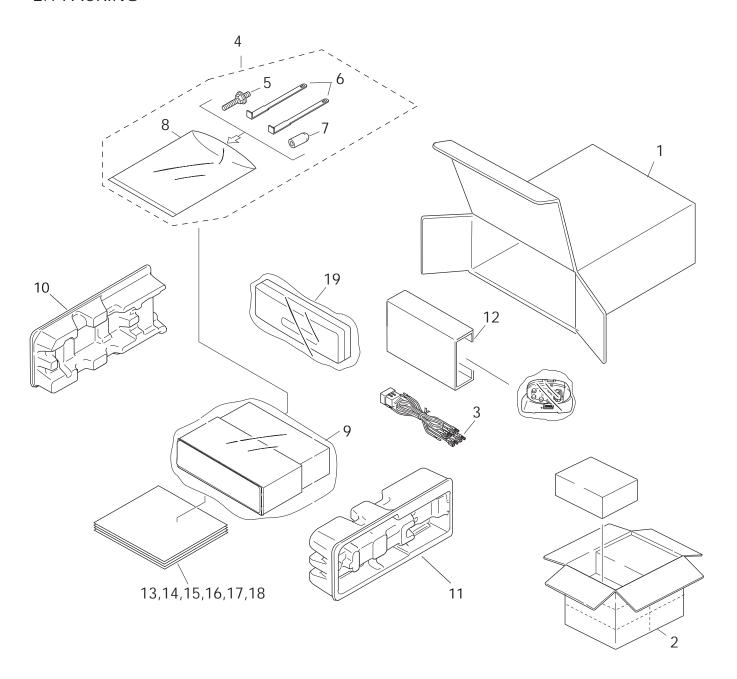
1. SAFETY INFORMATION

This service manual is intended for qualified service technicians; it is not meant for the casual do-it-yourselfer. Qualified technicians have the necessary test equipment and tools, and have been trained to properly and safely repair complex products such as those covered by this manual.

Improperly performed repairs can adversely affect the safety and reliability of the product and may void the warranty. If you are not qualified to perform the repair of this product properly and safely, you should not risk trying to do so and refer the repair to a qualified service technician.

2. EXPLODED VIEWS AND PARTS LIST

2.1 PACKING



NOTE:

- Parts marked by "*" are generally unavailable because they are not in our Master Spare Parts List.
- lacktriangle Screws adjacent to ∇ mark on the product are used for disassembly.

PACKING SECTION PARTS LIST

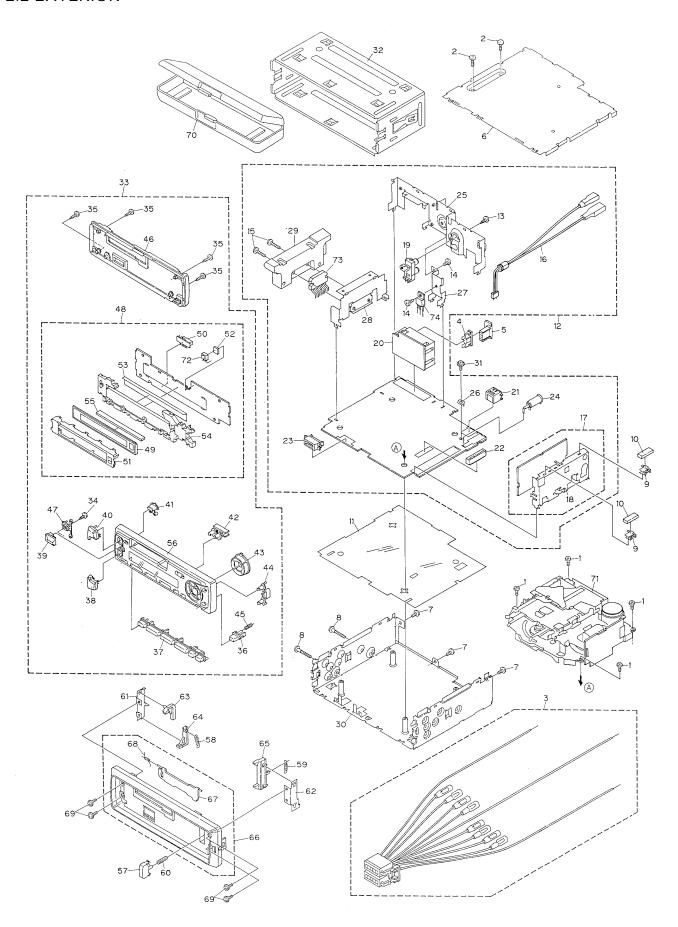
Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Carton(P4830R)	CHG3568	9	Polyethylene Bag	CEG-162
	Carton(P4800R)	CHG3567	10	Protector	CHP2102
2	Contain Box(P4830R)	CHL3568	11	Protector	CHP2101
	Contain Box(P4800R)	CHL3567	12	Inner-box	CHW1754
3	Cord Assy	CDE5796	13	Owner's Manual	CRD2777
4	Accessory Assy	CEA1917	14	Owner's Manual	CRD2778
5	Screw	CBA1304	15	Owner's Manual	CRD2779
6	Handle	CNC5395	16	Installation Manual	CRD2780
7	Bush	CNV3930	* 17	Passport	CRY1013
* 8	Polyethylene Bag	E36-615	* 18	Warranty Card	CRY1087
			19	Case Assy	CXB3520

Owner's Manual, Installation Manual

Model	Part No.	Language
KEH-P4830R/X1M/EW	CRD2777	English,Spanish
KEH-P4800R/X1M/EW	CRD2778	German,French
	CRD2779	Italian,Dutch
	CRD2780	English,Spanish,German,
		French, Italian, Dutch

KEH-P4830R,P4800R

2.2 EXTERIOR



(1) EXTERIOR SECTION PARTS LIST

Mark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ26P050FMC	41	Button(Eject)	CAC5793
2	Screw	BSZ30P050FMC		Button(Display)	CAC5788
	Cord Assy	CDE5796		Button	See Contrast table(2)
	Fuse(10A)	CEK1136		Button	See Contrast table(2)
	Plug	CKM1290		Spring	CBH2103
J	riag	ORIVITZ70	10	Spring	05/12/00
6	Case	CNB2350	46	Cover	See Contrast table(2)
7	Screw	BSZ30P050FMC	47	Housing	CNV5528
8	Screw	BSZ30P200FMC	48	Keyboard Unit	See Contrast table(2)
9	Holder	CNC5704	49	LCD(LCD1901)	See Contrast table(2)
10	Cushion	CNM5210		Connector(CN1901)	CKS3580
				,	
	Insulator	CNM5963		Holder	CNC7981
12	Tuner Amp Unit	See Contrast table(2)	52	Spacer	CNM5043
13	Screw	BPZ26P080FMC	53	Sheet	CNM5941
14	Screw	BSZ26P080FMC	54	Lighting Conductor	CNV5527
15	Screw	BSZ26P160FMC	55	Connector	CNV5531
1.4	Cord	CDCE7E0	E4	Crillo Unit	Coo Combrant table (2)
		CDE5750		Grille Unit	See Contrast table(2)
	FM/AM Tuner Unit	CWE1466		Button	CAC4836
	Holder	CNC6554		Spring	CBH1834
	Pin Jack(CN301)	CKB1035		Spring	CBH1835
20	Plug(CN603)	CKM1288	60	Spring	CBH2182
21	Connector(CN701)	CKS3408	61	Bracket	CNC6135
	Connector(CN602)	CKS3568		Bracket	CNC6791
	Connector(CN601)	CKS3581		Arm	CNV4692
	Antenna Jack(CN402)	CKX1056		Arm	CNV4693
	Panel	CNB2340		Arm	CNV4728
20	Turior	01402010	00	70111	0144 1720
26	Holder	CNC5399	66	Panel Unit	See Contrast table(2)
27	Holder	CNC6845	67	Door	See Contrast table(2)
28	Holder	CNC7996	68	Spring	CBH1838
29	Heat Sink	CNR1505	69	Screw	IMS20P030FZK
30	Chassis Unit	See Contrast table(2)	70	Case Assy	CXB3520
0.4	6	1000/00555110	74		
	Screw	ISS26P055FUC		Cassette Mechanism Mod	
	Holder Unit	CXB2687		IC(IC1902)	SBX8035-H
	Detach Grille Assy	See Contrast table(2)		IC(IC302)	TDA7384
	Screw	BPZ20P060FMC	74	Transistor(Q904)	2SD2396
35	Screw	BPZ20P100FZK			
36	Button	See Contrast table(2)			
	Button(1-6)	CAC5785			
	Button	See Contrast table(2)			
	Button	See Contrast table(2)			
	Button	See Contrast table(2)			
40	DULLOIT	JUE CUITH ast table(2)			

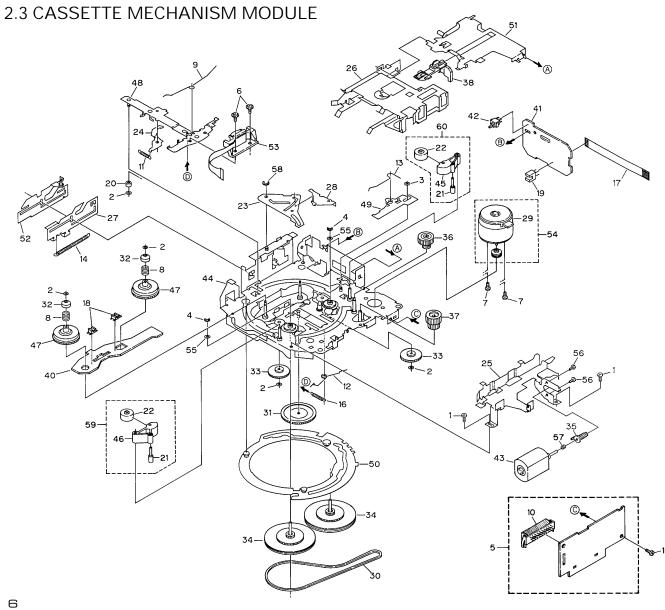
KEH-P4830R,P4800R

(2)CONTRAST TABLE

KEH-P4830R/X1M/EW and KEH-P4800R/X1M/EW have

the same construction except for the following:

	Part No.				
Mark No. Description	KEH-P4830R/X1M/EW	KEH-P4800R/X1M/EW			
12 Tuner Amp Unit	CWM6246	CWM6245			
30 Chassis Unit	CXB3015	CXB3014			
33 Detach Grille Assy	CXB3320	CXB3319			
36 Button(Detach)	CAC5929	CAC5789			
38 Button(-)	CAC5931	CAC5930			
39 Button(EQ)	CAC6136	CAC6135			
40 Button(+)	CAC5797	CAC5783			
43 Button(Cross)	CAC5799	CAC5786			
44 Button(A,B)	CAC5801	CAC5787			
46 Cover	CNS5131	CNS5130			
48 Keyboard Unit	CWM6257	CWM6110			
49 LCD(LCD1901)	CAW1542	CAW1506			
56 Grille Unit	CXB4063	CXB4062			
66 Panel Unit	CXB3022	CXB3021			
67 Door	CAT1835	CAT2028			



• CASSETTE MECHANISM MODULE SECTION PARTS LIST

lark No.	Description	Part No.	Mark No.	Description	Part No.
1	Screw	BSZ20P040FMC	46	Pinch Holder	ENV1486
	Washer	CBF1037	47	Reel Unit	EXA1543
	Washer	CBF1038		Head Base Unit	EXA1457
	Washer	CBG1003		Lever Unit	EXA1438
	Deck Unit	EWM1021		Gear Unit	EXA1574
6	Screw	ED A 1020	F.1	Frame Unit	EV A 1 / E O
		EBA1028		Lever Unit	EXA1458
	Screw	EBA1037			EXA1439
	Spring	EBH1531		Head Assy(HD1)	EXA1506
	Spring	EBH1575		Motor Unit(M1) Washer	EXA1490 HBF-179
10	Plug(CN251)	CKS3540	ວວ	vvasilei	ПОГ-1/9
	Spring	EBH1515		Screw	BMZ20P022FMC
	Spring	EBH1587		Spring	EBH1545
	Spring	EBH1517	58	Washer	YE20FUC
14	Spring	EBH1518	59	Pinch Holder Unit	EXA1529
15	••••		60	Pinch Holder Unit	EXA1528
16	Spring	EBH1537			
	Cord	EDD1020			
	Photo-interrupter(EGN2,3)				
	Photo-interrupter(EGN1)				
	Roller	ENR1031			
21	Shaft	ELA1373			
	Pinch Roller	ENV1518			
	Arm	ENC1489			
	Arm	ENC1397			
	Guide	ENC1481			
24	Holder	ENC1417			
	Holder	ENC1417			
	Lever	ENC1448			
	Arm	ENC1488			
	Motor	EXM1031			
30	Belt	ENT1027			
31	Gear	ENV1347			
32	Collar	ENV1508			
	Gear	ENV1350			
	Flywheel	ENV1500			
	Worm Gear	ENV1439			
36	Worm Wheel	ENV1440			
	Gear	ENR1028			
	Lever	ENV1442			
	•••••	_ I V I I I L			
	Gathering PCB	ENX1037			
<i>1</i> 1	Gathering PCB	ENX1042			
	•				
	Switch(S1)	ESG1004			
	Motor Unit(M2)	EXA1485			
	Chassis Unit	EXA1511			
45	Pinch Holder	ENV1485			

Α

В

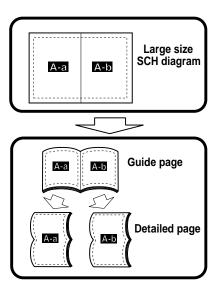
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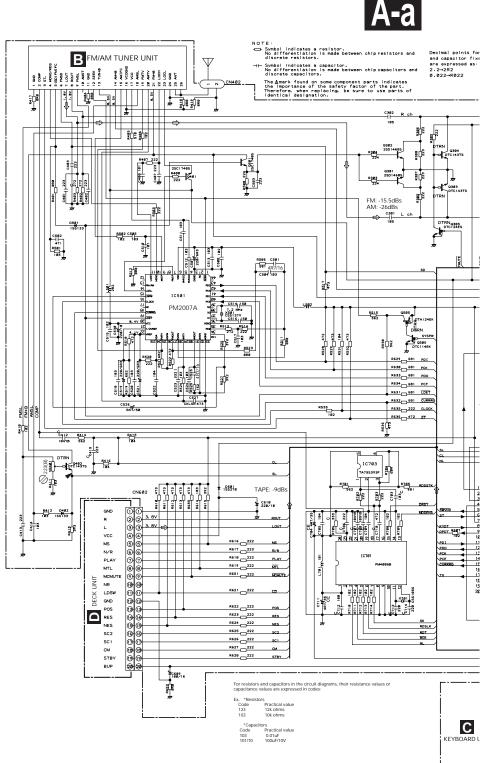
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3. SCHEMATIC DIAGRAM

3.1 OVERALL CONNECTION DIAGRAM(GUIDE PAGE)

Note: When ordering service parts, be sure to refer to "EXPLODED VIEWS AND PARTS LIST" or "ELECTRICAL PARTS LIST".





3

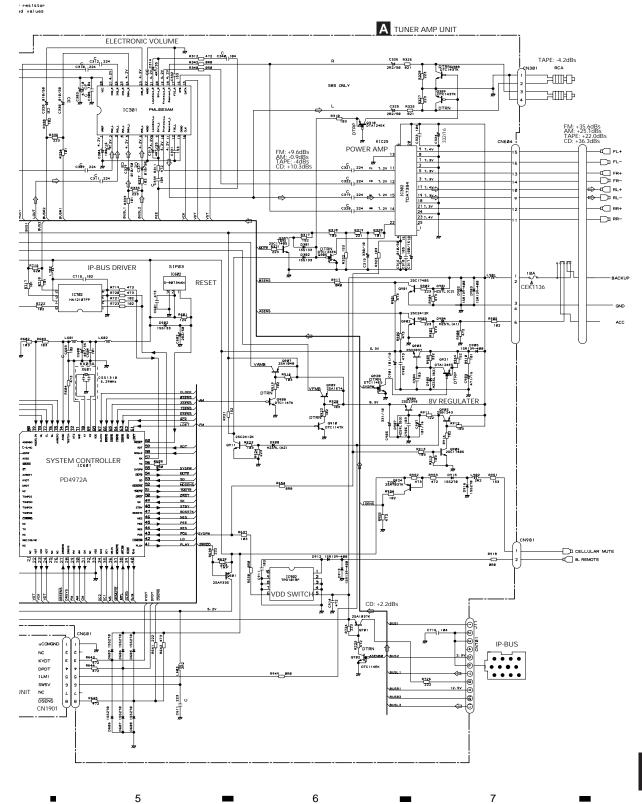
A

2

A-b

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A

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A-b

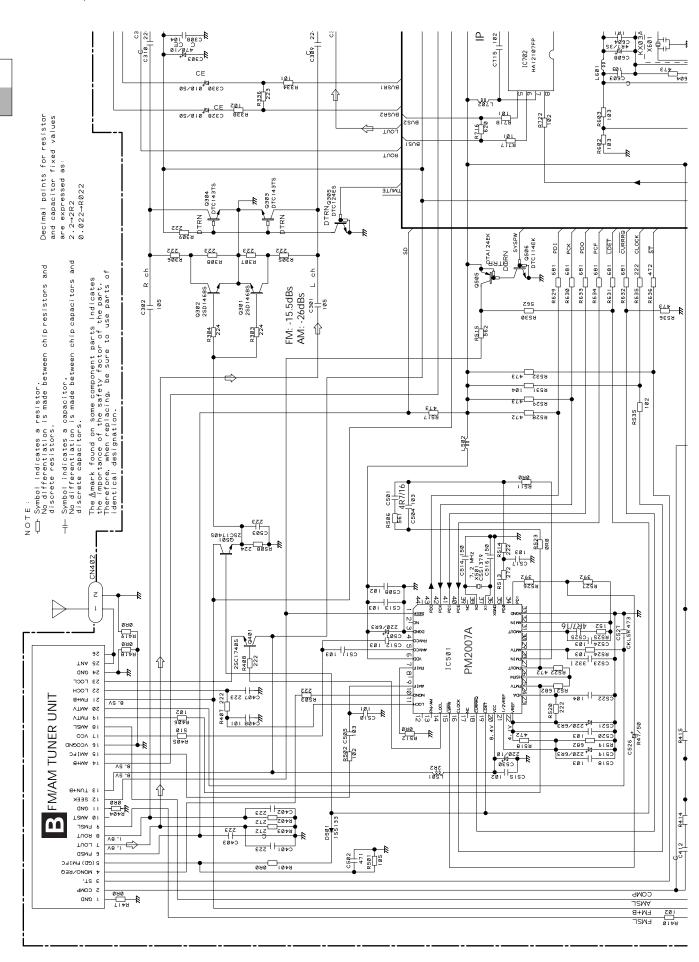
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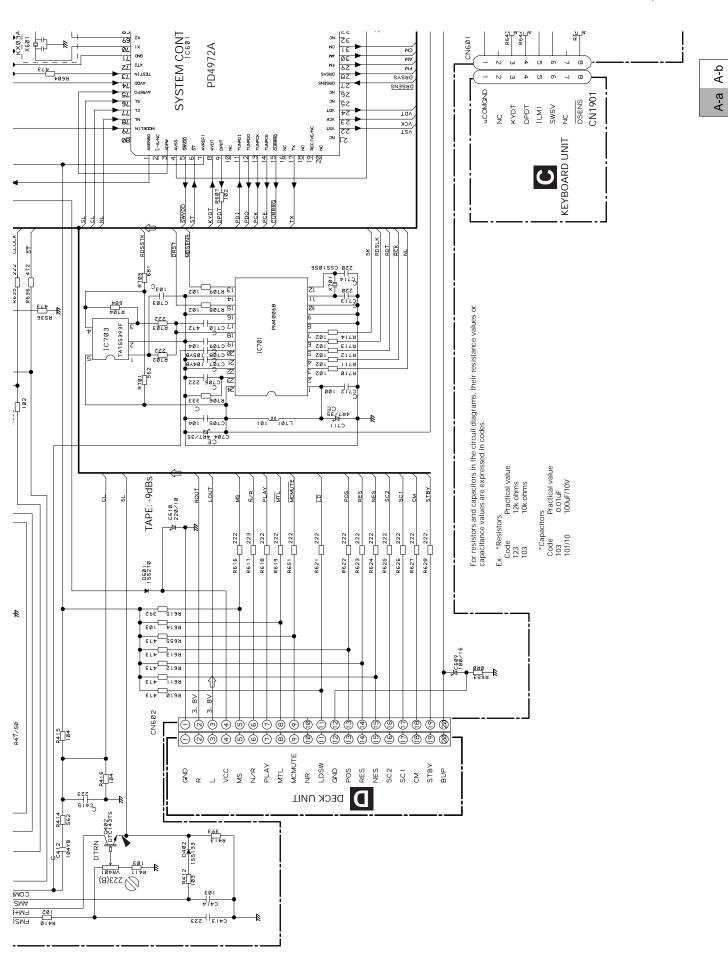
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A-a A-b

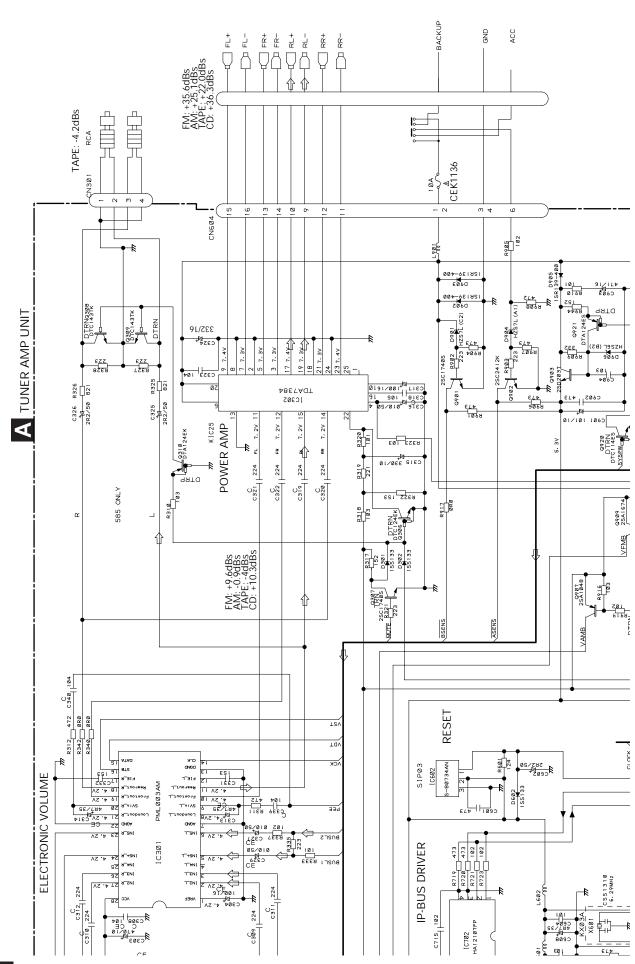
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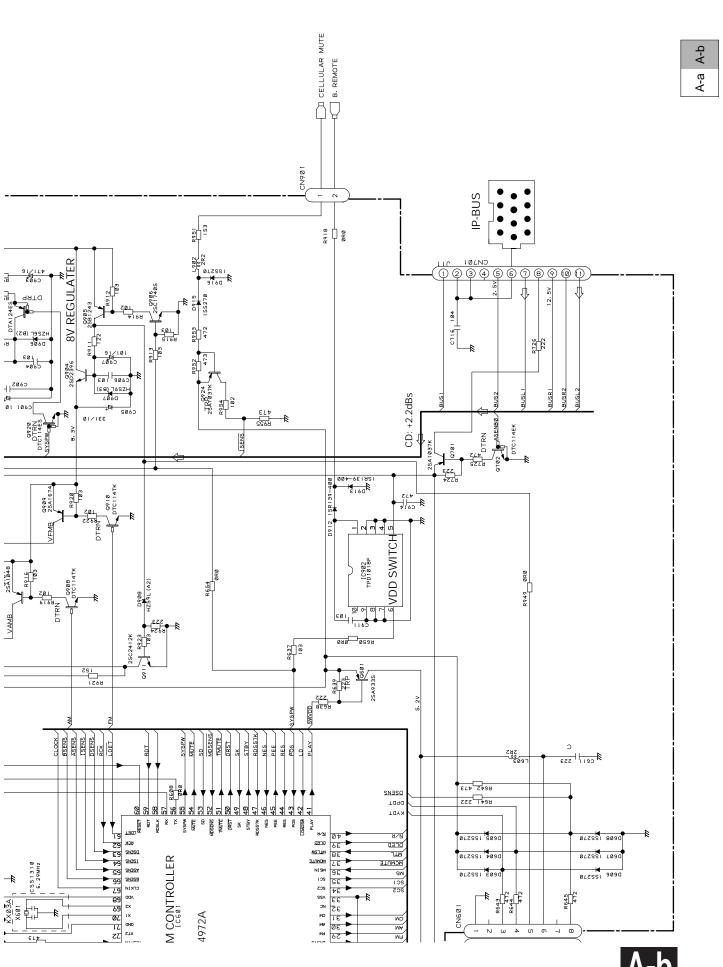
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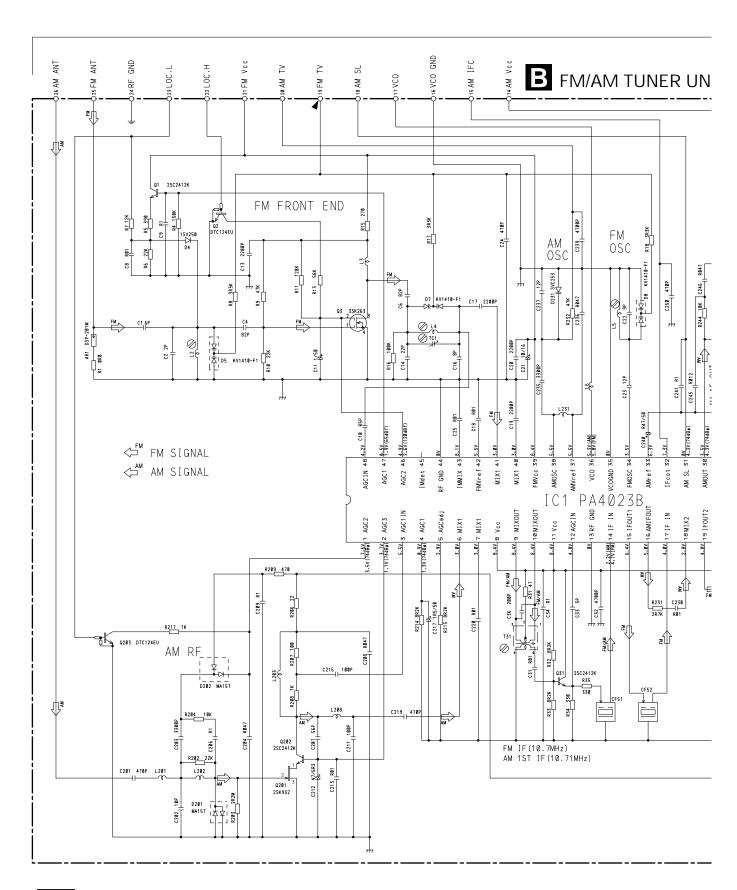
3.2 FM/AM TUNER UNIT

Α

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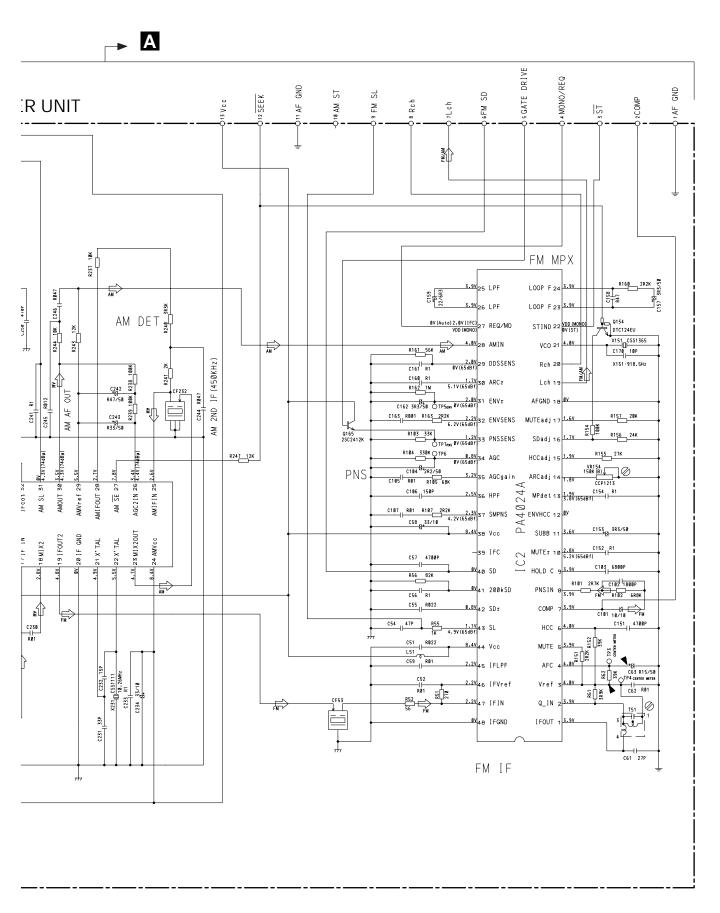
С

D



3

2



B

В

С

D

R1908 47K R1909 47K SEG2 SEG0 COM3 COM2 COM1 SEG1 COMØ LCDB KST3 KST2 KST1 SEG0 COM1 COM2 COM3 SEG5 REM SEG6 63 DPDT SEG7 19 62 RST SEG8 61 SEG8 KYDT IC1901 PD6278A SEG9 MODA SEG9 SEG10 59 SEG10 XΟ SEG11 58 23 SEG11 ΧI SEG12 57 SEG12 VSS 56 VDDKDT2 4.97MH; SEG13 55 KDT3 SEG14 54 SEG14 KST5 SEG15 53 SEG15 LCD DRIVER KST4 SEG16 52 SEG16 SEG39 SEG17 51 30 SEG17 SEG38 SEG18 50 SEG37 SEG23 SEG25 SEG26 SEG27 SEG28 SEG29 SEG30 SEG31 38 39 SEG10 SEG12 SEG13 SEG14 SEG15 SEG20 SEG26 SEG30 SEG17 SEG22 SEG21 SEG3 SEG4 SEG7 SEG8 SEG5 SEG1 LCD1981 LCD, 1/4Duty, 1/3Bias CAW1542:P4830R/X1M/EW CAW1506:P4800R/X1M/EW

C

16

В

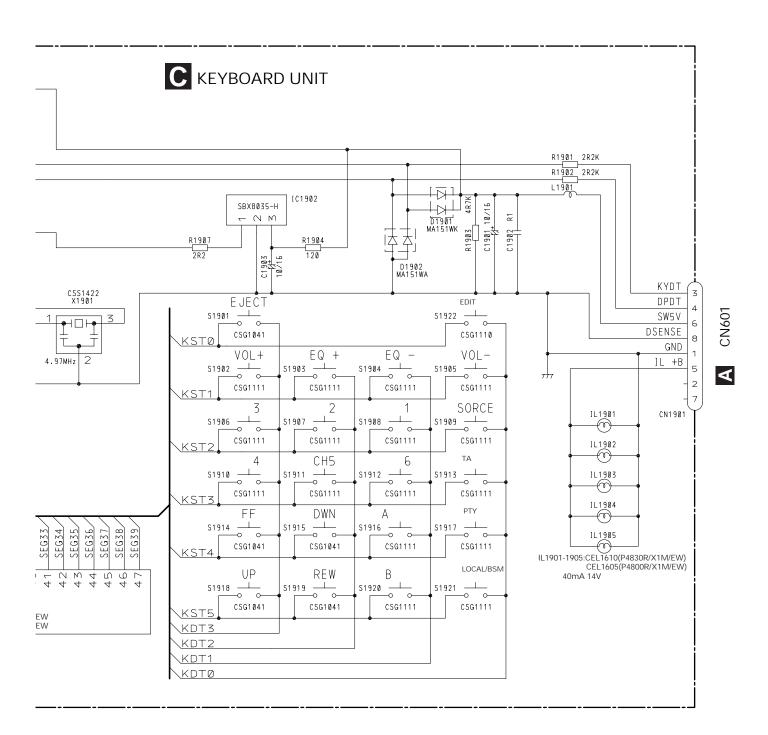
С

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C

17

В

С

D

3.4 CASSETTE MECHANISM MODULE

D DECK UNIT TAB GND C254 330P IC251 18 R271 IK
17 R274 IK
16
15
14
13
12
11 Fwd-R CXA2559Q Fwd-L R281 0R0 EQ.AMP C251 330P C402 R402 4700P 16K C401 R401 R33 4R7K HD1 HEAD ASSY EXA1506 TEST TAPE NCT-150 (400Hz, 200nWb/m) R323 0R0 Signal GND CN251 MUTE PLAY $\overset{\mathcal{H}}{\mathbb{H}}$ -6dBs(388mV)±1dB **A** CN602

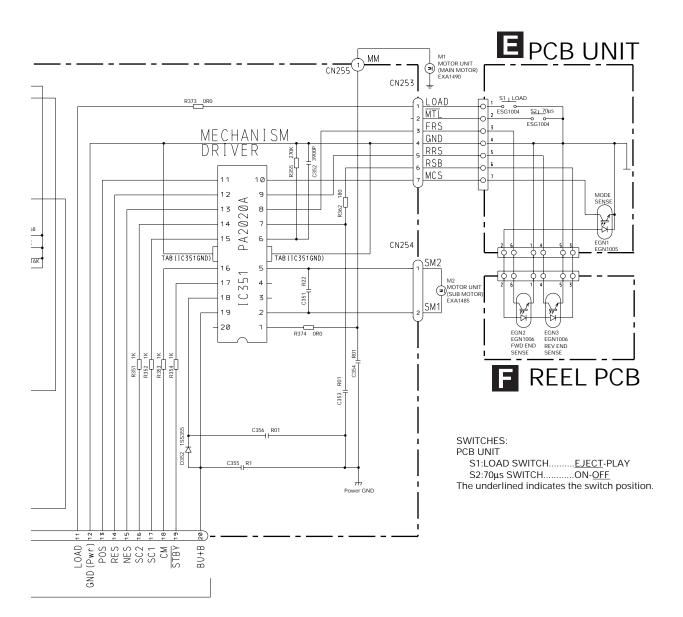
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DEF

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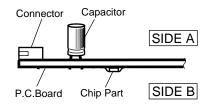
D

4. PCB CONNECTION DIAGRAM

4.1 TUNER AMP UNIT

NOTE FOR PCB DIAGRAMS

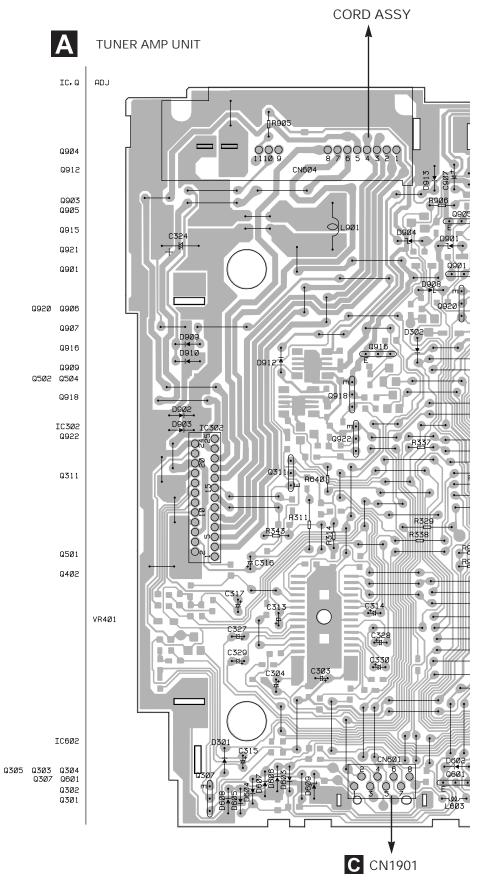
- The parts mounted on this PCB include all necessary parts for several destination.
 For further information for respective destinations, be sure to check with the schematic diagram.
- 2. Viewpoint of PCB diagrams



В

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SIDE A CN4Ø2 **D** CN251 R954 R955 **►**B

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A

21

В

TUNER AMP UNIT

.1R724

||R953

R334 R336

∏R631

R413 TC413

H→ C411 →R4Ø4 HH-C4Ø2 R411 HH-R4Ø2 HH-₩ R402 R410 -⊢-C4Ø1 HH C4Ø3

В

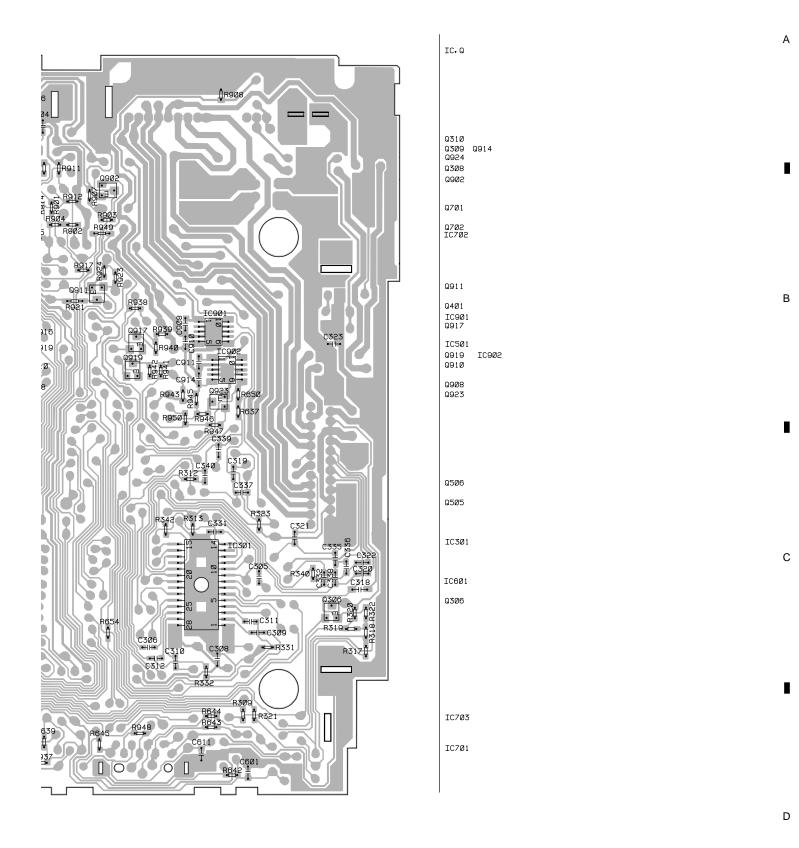
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KEH-P4830R,P4800R

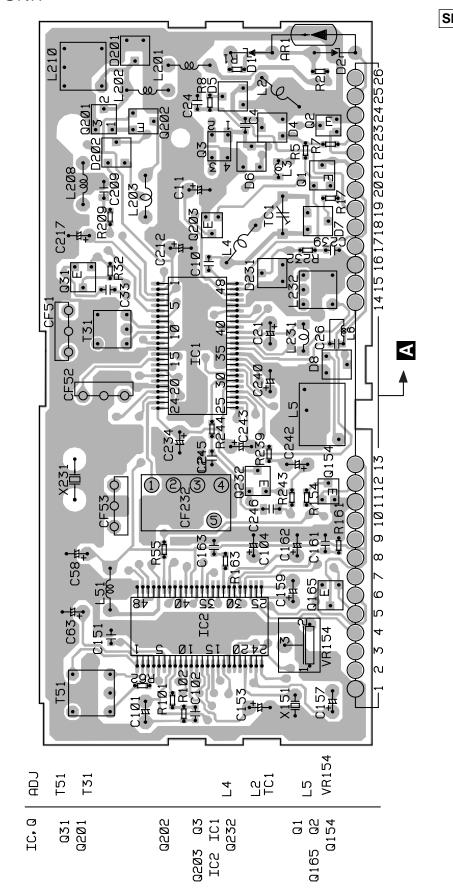
SIDE B



В

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4.2 FM/AM TUNER UNIT



FM/AM TUNER UNIT

m

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SIDE B

3

R36 C213+H RZØS RZØ3

2

B FM/AM TUNER UNIT

В

25

В

С

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S1916

0

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SIDE A

4.3 KEYBOARD UNIT

В

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KEYBOARD UNIT

IC, Q

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IC1902

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2

KEYBOARD UNIT



C

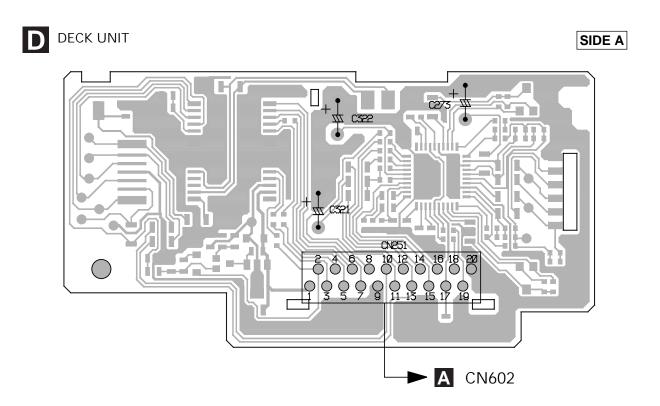
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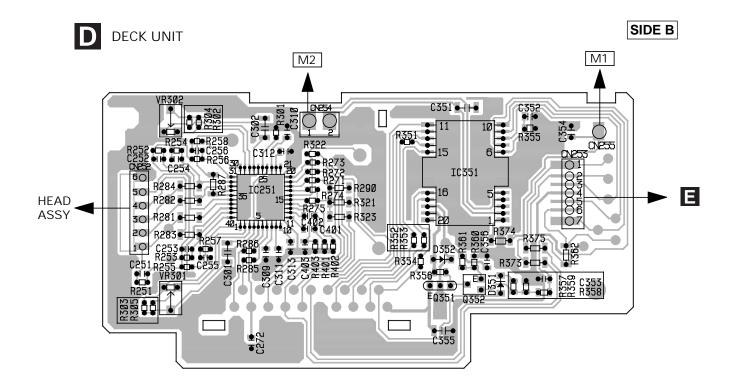
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4.4 CASSETTE MECHANISM MODULE

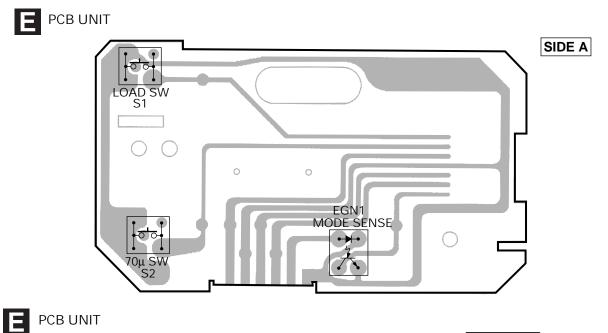


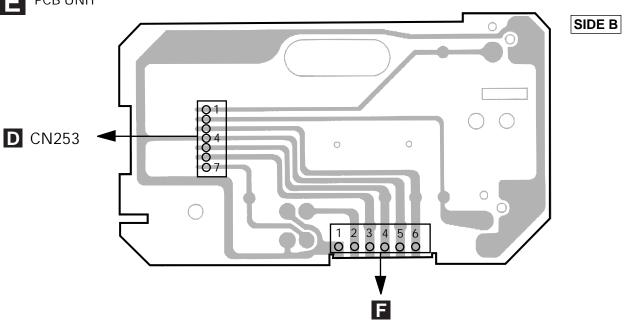




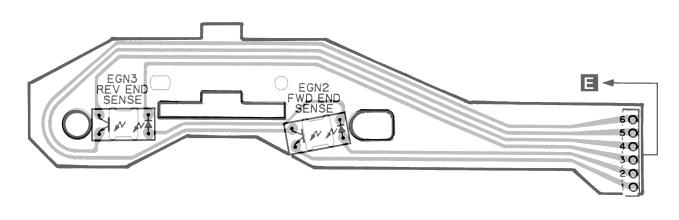
3

— 4









В

С

5. ELECTRICAL PARTS LIST

NOTE:

- Parts whose parts numbers are omitted are subject to being not supplied.
- The part numbers shown below indicate chip components.

Chip Resistor

RS1/OSOOOJ,RS1/OOSOOOJ

Chip Capacitor (except for CQS.....)

CKS....., CCS....., CSZS.....

=====Circuit Symbol and No.===Part Name	Part No.	=====Circuit Symbol and No.===Part Nar	
Unit Number : CWM6246(KEH-P4830F : CWM6245(KEH-P4800F Unit Name : Tuner Amp Unit	R/X1M/EW)	D 606 Diode D 607 Diode D 608 Diode D 901 Diode D 902 Diode	1SS270 1SS270 1SS270 1SS270 HZS7L(C2) 1SR139-400
IC 301 IC	PML003AM	D 903 Diode	1SR139-400
IC 302 IC	TDA7384	D 904 Diode	HZS7L(A1)
IC 501 IC	PM2007A	D 905 Diode	1SR139-400
IC 601 IC	PD4972A	D 906 Diode	HZS6L(B2)
IC 602 IC	S-80734AN	D 907 Diode	HZS9L(B3)
IC 701 IC IC 702 IC IC 703 IC IC 902 IC Q 301 Transistor	PM4006B CA0008AM TA75S393F TPD1018F 2SD1468S	D 908 Diode D 912 Diode D 913 Diode D 915 Diode D 916 Diode	HZS9L(A2) 1SR139-400 1SR139-400 1SS270 1SS270
O 302 Transistor O 303 Transistor O 304 Transistor O 305 Transistor O 306 Transistor	2SD1468S DTC143TS DTC143TS DTC124ES DTC124EK	L 501 Ferri-Inductor L 502 Ferri-Inductor L 601 Ferri-Inductor L 602 Ferri-Inductor L 603 Ferri-Inductor	LAU2R2K LAU2R2K LAU2R2K LAU2R2K LAU2R2K LAU2R2K
Q 307 Transistor Q 308 Transistor Q 309 Transistor Q 310 Transistor Q 401 Transistor	2SC1740S	L 701 Ferri-Inductor	LAU101K
	DTC143TK	L 702 Ferri-Inductor	LAU2R2K
	DTC143TK	L 901 Coil	CTH1219
	DTA124EK	L 902 Ferri-Inductor	LAU2R2K
	2SC2412K	X 501 Crystal Resonator 7.200MHz	CSS1379
Q 402 Transistor Q 501 Transistor Q 505 Transistor Q 506 Transistor Q 601 Transistor	DTC143TS 2SC1740S DTA124EK DTC114EK 2SA933S	X 601 Ceramic Resonator 6.29MHz X 701 Crystal Resonator 4.332MHz VR 401 Semi-fixed 22k $\Omega(B)$	
Q 701 Transistor Q 702 Transistor Q 901 Transistor Q 902 Transistor Q 903 Transistor	2SA1037K	R 303	RS1/8S224J
	DTC114EK	R 304	RS1/8S224J
	2SC1740S	R 305	RS1/10S222J
	2SC2412K	R 306	RS1/10S222J
	2SD2037	R 307	RS1/10S223J
O 904 Transistor O 905 Transistor O 906 Transistor O 907 Transistor O 908 Transistor	2SD2396	R 308	RS1/10S223J
	2SB1243	R 309	RS1/10S222J
	2SC1740S	R 310	RS1/10S103J
	2SA1048	R 311	RD1/4PU472J
	DTC114TK	R 312	RS1/10S472J
O 909 Transistor O 910 Transistor O 911 Transistor O 920 Transistor O 921 Transistor	2SA1674	R 317	RS1/10S152J
	DTC114TK	R 318	RS1/10S103J
	2SC2412K	R 319	RS1/10S221J
	DTC114ES	R 320	RS1/10S101J
	DTA124ES	R 321	RS1/10S223J
Q 924 Transistor D 301 Diode D 302 Diode D 402 Diode D 501 Diode	2SA1037K	R 322	RS1/10S153J
	1SS270	R 323	RS1/10S103J
	1SS270	R 325	RS1/10S821J
	1SS270	R 326	RS1/10S821J
	1SS270	R 327	RS1/10S223J
D 601 Diode D 602 Diode D 603 Diode D 604 Diode D 605 Diode	1SS270	R 328	RS1/10S223J
	1SS270	R 333	RS1/10S101J
	1SS270	R 334	RS1/10S101J
	1SS270	R 335	RS1/10S223J
	1SS270	R 336	RS1/10S223J

====Circuit Symbol and No.==Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
R 337	RD1/4PU102J	R 619	RD1/4PU222J
R 338	RD1/4PU102J	R 621	RS1/10S222J
R 340	RS1/10S0R0J	R 622	RS1/10S222J
R 342	RS1/10S0R0J	R 623	RD1/4PU222J
R 401	RS1/10S0R0J	R 624	RS1/10S222J
R 402	RS1/10S272J	R 625	RD1/4PU222J
R 403	RS1/10S272J	R 626	RD1/4PU222J
R 404	RS1/10S0R0J	R 627	RD1/4PU222J
R 405	RS1/10S510J	R 628	RD1/4PU222J
R 406	RS1/10S102J	R 629	RD1/4PU681J
R 407	RD1/4PU222J	R 630	RS1/10S681J
R 408	RS1/10S222J	R 631	RS1/10S681J
R 410	RS1/10S102J	R 632	RD1/4PU681J
R 411	RS1/10S103J	R 633	RD1/4PU681J
R 412	RD1/4PU103J	R 634	RD1/4PU681J
R 413	RS1/10S393J	R 635	RD1/4PU222J
R 414	RS1/10S562J	R 636	RS1/10S472J
R 415	RS1/10S104J	R 637	RS1/10S103J
R 416	RS1/8S104J	R 638	RD1/4PU222J
R 417	RS1/10S0R0J	R 639	RS1/10S223J
R 418	RS1/10S0R0J	R 641	RD1/4PU222J
R 419	RS1/10S0R0J	R 642	RS1/10S473J
R 501	RS1/10S105J	R 643	RS1/10S472J
R 502	RS1/10S102J	R 644	RS1/10S472J
R 503	RS1/10S222J	R 645	RS1/10S472J
R 506	RS1/10S561J	R 650	RS1/10S0R0J
R 508	RS1/10S224J	R 651	RD1/4PU222J
R 510	RS1/10S0R0J	R 653	RS1/8S0R0J
R 511	RS1/10S0R0J	R 654	RS1/10S0R0J
R 512	RS1/10S0R0J	R 655	RS1/10S473J
R 513	RS1/10S272J	R 701	RS1/10S562J
R 514	RS1/8S222J	R 702	RS1/10S222J
R 515	RS1/10S562J	R 703	RS1/10S222J
R 517	RS1/10S473J	R 704	RS1/10S684J
R 518	RS1/10S472J	R 705	RD1/4PU681J
R 519	RS1/10S682J	R 706	RS1/10S333J
R 520	RS1/10S222J	R 708	RD1/4PU102J
R 521	RS1/10S682J	R 709	RD1/4PU102J
R 522	RS1/10S472J	R 710	RS1/10S102J
R 523	RS1/10S0R0J	R 711	RD1/4PU102J
R 524	RS1/10S103J	R 712	RD1/4PU102J
R 525	RS1/10S152J	R 713	RD1/4PU102J
R 526	RS1/10S392J	R 714	RD1/4PU102J
R 527	RS1/10S392J	R 716	RS1/10S620J
R 528	RS1/10S472J	R 717	RS1/10S101J
R 529	RS1/10S473J	R 718	RS1/10S101J
R 530	RS1/10S562J	R 719	RS1/10S473J
R 531	RS1/10S104J	R 720	RS1/10S473J
R 532	RS1/10S473J	R 721	RS1/10S102J
R 535	RD1/4PU102J	R 722	RS1/10S102J
R 536	RS1/10S473J	R 723	RS1/10S102J
R 601	RS1/10S124J	R 724	RS1/10S223J
R 602	RS1/10S103J	R 725	RD1/4PU472J
R 603	RS1/10S103J	R 726	RS1/10S222J
R 604	RS1/10S473J	R 901	RS1/10S473J
R 607	RD1/4PU102J	R 902	RS1/10S223J
R 610	RS1/10S473J	R 903	RS1/10S223J
R 611	RS1/10S473J	R 904	RS1/10S473J
R 612	RS1/10S473J	R 905	RD1/4PU102J
R 613	RS1/10S473J	R 906	RD1/4PU473J
R 614	RS1/8S103J	R 907	RS1/10S473J
R 615	RS1/10S392J	R 908	RS1/10S472J
R 616	RD1/4PU222J	R 909	RS1/10S332J
R 617	RD1/4PU223J	R 910	RD1/4PU101J
R 618	RD1/4PU222J	R 911	RS1/10S122J

KEH-P4830R,P4800R

====Circuit Symbol and No.===Part Name	Part No.	====Circuit Symbol and No.===Part Name	Part No.
R 912 R 913 R 914 R 915 R 916	RS1/10S103J RS1/10S103J RS1/10S102J RS1/10S103J RS1/10S103J	C 501 4.7μF/16V C 502 C 503 C 504 C 505	CCH1165 CKSQYB471K50 CKSQYB223K50 CKSQYB103K50 CKSQYB103K50
R 917 R 918 R 919 R 920 R 921	RS1/10S0R0J RS1/8S0R0J RS1/10S102J RS1/10S103J RS1/10S152J	C 507 C 508 C 510 C 511 C 512	CEJA220M6R3 CKSQYB102K50 CCSQSL101J50 CKSQYB103K50 CKSQYB103K50
R 922 R 923 R 924 R 944 R 948	RS1/10S102J RS1/10S103J RS1/10S223J RS1/10S152J RS1/10S0R0J	C 513 C 514 C 515 C 516 C 517	CKSQYB103K50 CCSQCH150J50 CKSQYB102K50 CCSQCH150J50 CKSQYB103K50
R 949 R 951 R 952 R 953 R 954	RS1/8S0R0J RS1/10S153J RS1/10S472J RS1/10S472J RD1/4PU102J	C 518 C 519 C 520 C 521 C 522	CKSQYB103K50 CEJA220M6R3 CKSQYB103K50 CEJA220M6R3 CKSQYB104K50
R 955 CAPACITORS C 301	RD1/4PU473J CKSQYB105K10	C 523 C 524 C 525 4.7μF/16V C 526 C 527	CKSQYB332K50 CKSQYB103K50 CCH1250 CEJAR47M50 CKLSR473K16
C 302 C 303 C 304 C 308	CKSQYB105K10 CEJA470M10 CEJA100M16 CKSQYB104K50 CKSQYB224K16	C 530 C 601 C 602 C 603 C 604	CEJA220M10 CKSQYB473K50 CKSQYB103K50 CCSQCH101J50 CCSQCH101J50
C 310 C 311 C 312 C 313	CKSQYB224K16 CKSQYB224K16 CKSQYB224K16 CEJA4R7M35	C 608 C 609 C 610 C 611	CEJA4R7M35 CEJA100M16 CEJA220M10 CKSQYB223K50
C 314 C 315 C 316 C 317 C 318	CEJA4R7M35 CEJA330M10 CEJA1R0M50 CEJA100M16 CKSYB105K16	C 704 C 705 C 706 C 707	CKSQYB103K50 CEJA4R7M35 CKSQYB104K50 CKSQYB222K50 CKSQYB104K50
C 319 C 320 C 321 C 322 C 323	CKSQYB224K16 CKSQYB224K16 CKSQYB224K16 CKSQYB224K16 CKSQYB104K50	C 708 C 709 C 710 C 711 C 712	CKSYB105K16 CKSQYB104K50 CKSQYB472K50 CEJA4R7M35 CCSQCH100D50
C 324 3300μF/16V C 325 C 326 C 327 C 328	CCH1169 CEJA2R2M50 CEJA2R2M50 CEJA1R0M50 CEJA1R0M50	C 713 C 714 C 715 C 716 C 717	CCSQCH220J50 CCSQCH220J50 CKSQYB102K50 CKSQYB104K50 CCSQCH101J50
C 329 C 330 C 331 C 332 C 339	CEJA1R0M50 CEJA1R0M50 CKSQYB153K50 CKSQYB153K50 CKSQYB104K50	C 901 C 902 C 903 470μF/16V C 904	CEJA101M10 CKSQYB473K50 CCH1183 CKSQYB103K50
C 340 C 401 C 402 C 403 C 407	CKSQYB104K50 CKSQYB223K25 CKSQYB223K25 CKSQYB223K25 CKSQYB223K50	C 905 330μF/10V C 906 C 907 100μF/16V C 911 C 914	CCH1181 CKSQYB103K50 CCH1179 CKSQYB103K50 CKSQYB472K50
C 408 C 412 C 413 C 414 C 415	CCSQSL101J50 CKSQYB104K50 CKSQYB223K50 CKSQYB103K50 CKSYB223K50	Unit Number : CWM6257(KEH-P4830R : CWM6110(KEH-P4800R : Keyboard Unit MISCELLANEOUS	
		IC 1901 IC IC 1902 IC D 1901 Chip Diode D 1902 Diode L 1901 Ferri-Inductor	PD6278A SBX8035-H MA151WK MA151WA LAU101K

	and No.===Part Name	Part No.		==Circuit Symbol and No.===Part Name	Part No.
	Resonator 4.97MHz	CSS1422 CSG1041 CSG1111	RES	SISTORS	
S 1903 Switch S 1904 Switch		CSG1111 CSG1111	R R R	255 256 257	RS1/16S221J RS1/16S221J RS1/16S102J
S 1905 Switch S 1906 Switch S 1907 Switch S 1908 Switch		CSG1111 CSG1111 CSG1111 CSG1111	R R R	258 271 272	RS1/16S102J RS1/16S102J RS1/16S102J
S 1909 Switch S 1910 Switch		CSG1111 CSG1111	R R R	273 274 281	RS1/16S102J RS1/16S102J RS1/8S0R0J
S 1911 Switch S 1912 Switch S 1913 Switch S 1914 Switch		CSG1111 CSG1111 CSG1111	R R	282 283	RS1/8S0R0J RS1/8S0R0J
S 1914 Switch S 1915 Switch S 1916 Switch		CSG1041 CSG1041 CSG1111	R R R	284 285 286 287	RS1/8S0R0J RS1/16S0R0J RS1/16S0R0J RS1/8S0R0J
S 1917 Switch S 1918 Switch S 1919 Switch		CSG1111 CSG1041 CSG1041	R R	290 301	RS1/8S0R0J RS1/16S183J
S 1920 Switch S 1921 Switch S 1922 Switch		CSG1111 CSG1111 CSG1110	R R R	302 303 304	RS1/16S163J RS1/16S163J RS1/16S163J
IL 1901 Lamp 40 IL 1901 Lamp 40	Oma 14V(P4830R/X1M/EW) Oma 14V(P4800R/X1M/EW)	CEL1605	R R R	305 323 351	RS1/16S163J RS1/8S0R0J RS1/16S102J
IL 1902 Lamp 40 IL 1903 Lamp 40	DMA 14V(P4830R/X1M/EW) DMA 14V(P4800R/X1M/EW) DMA 14V(P4830R/X1M/EW) DMA 14V(P4800R/X1M/EW)	CEL1605 CEL1610	R R R	352 353 354	RS1/16S102J RS1/16S102J RS1/16S102J
IL 1904 Lamp 40 IL 1904 Lamp 40	0mA 14V(P4830R/X1M/EW) 0mA 14V(P4800R/X1M/EW)	CEL1610 CEL1605	R R R	355 362 373	RS1/10S274J RS1/8S181J RS1/8S0R0J
IL 1905 Lamp 40 LCD1901 LCD(KEI	DmA 14V(P4830R/X1M/EW) DmA 14V(P4800R/X1M/EW) H-P4830R/X1M/EW) H-P4800R/X1M/EW)		R R R	374 401 402	RS1/8S0R0J RS1/16S472J RS1/16S163J
RESISTORS			R	403 PACITORS	RS1/16S823J
R 1901 R 1902 R 1903 R 1904 R 1907		RS1/10S222J RS1/10S222J RS1/10S472J RS1/10S121J RS1/10S2R2J	C C C	251 252 253 254	CKSRYB331K50 CKSRYB331K50 CKSRYB331K50 CKSRYB331K50
R 1908 R 1909 R 1910 R 1911 R 1912		RS1/10S473J RS1/10S473J RS1/10S473J RS1/10S473J RS1/10S473J	CCCCC	255 256 272 273 301	CKSRYB103K25 CKSRYB103K25 CKSQYB104K16 CEJA220M16 CKSYB104K50
R 1913		RS1/10S473J	С	302 313	CKSYB104K50 CCSQCH101K50
CAPACITORS			C C	351 352	CKSYB224K25 CKSQYB392K50
C 1901 C 1902 C 1903		CEAL100M16 CKSQYB104K16 CEAL100M16	C	353 354	CKSQYB103K50 CKSQYB103K50
	: EWM1021 : Deck Unit		C C C C	355 356 401 402 403	CKSYB104K50 CKSQYB103K50 CKSQYB334K16 CKSQYB472K50 CKSQYB683K16
MISCELLANEOUS IC 251 IC		CXA2559Q	E	Unit Number: Unit Name: PCB Unit	
IC 351 IC IC 351 IC D 352 Diode		PA2020A 1SS355	S EGN	1 Switch (Load)	ESG1004 EGN1005

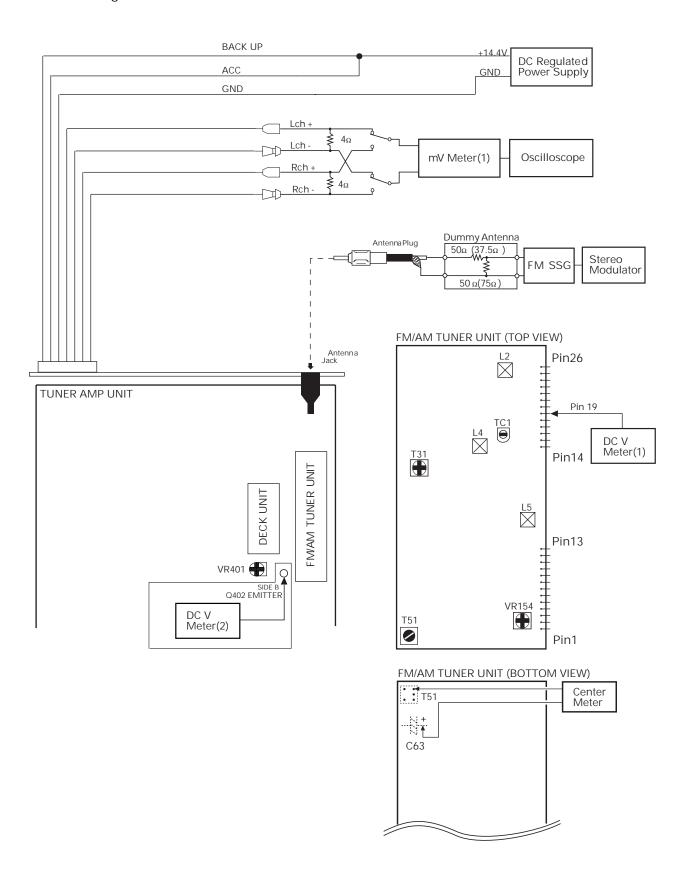
KEH-P4830R,P4800R

====Circuit Symbol and No			==Circuit Symbol and No.===Part Name	Part No.
Unit Number: Reel EGN 2 Photo-Interrup EGN 3 Photo-Interrup Unit Number: CWI Unit Name: FM/A	PCB er EGN1006 er EGN1006	R R R R R R R R R R R	32 33 34 35 51 52 55 56 61 62	RS1/16S822J RS1/16S822J RS1/16S331J RS1/16S331J RS1/16S271J RS1/16S560J RS1/16S102J RS1/16S823J RS1/16S392J RS1/16S393J
IC 1 IC IC 2 IC Q 1 Transistor Q 2 Transistor Q 3 FET	PA4023B PA4024A 2SC2412K DTC124EU 3SK263	R R R R	101 102 103 104 105	RS1/16S272J RS1/16S682J RS1/16S333J RS1/16S334J RS1/16S683J
Q 31 Transistor Q 154 Transistor Q 165 Transistor Q 201 FET Q 202 Transistor	2SC2412K DTC124EU 2SC2412K 2SK932 2SC2412K	R R R R	107 151 152 154 155	RS1/16S222J RS1/16S222J RS1/16S393J RS1/16S104J RS1/16S273J
Q 203 Transistor D 4 Diode D 5 Diode D 7 Diode D 8 Diode	DTC124EU 1SV250 KV1410-F1 KV1410-F1 KV1410-F1	R R R R	156 157 160 161 162	RS1/16S243J RS1/16S203J RS1/16S222J RS1/16S563J RS1/16S105J
D 201 Diode D 202 Diode D 231 Diode L 2 Coil L 3 Inductor	MA157 MA157 SVC253 CTC1133 LCTB2R2K212	R R R R R	163 202 203 204 206	RS1/16S222J RS1/16S223J RS1/16S225J RS1/16S103J RS1/16S220J
L 4 Coil L 5 Coil L 6 Inductor L 51 Ferri-Inductor L 201 Ferri-Inductor	CTC1133 CTC1132 LCTBR15K160 LAU150K LAU4R7K	R R R R R	207 208 209 214 215	RS1/16S101J RS1/16S102J RS1/16S471J RS1/16S822J RS1/16S822J
L 202 Ferri-Inductor L 203 Inductor L 208 Inductor L 231 Inductor T 31 Coil	LAU330K CTF1287 LAU121K LCTA3R3J322 CTE1116	R R R R P5 R	217 231 232 237 238	RS1/16S102J RS1/16S272J RS1/16S473J RS1/16S103J RS1/16S104J
T 51 Coil TC 1 Trimmer CF 51 Ceramic Filter CF 52 Ceramic Filter CF 53 Ceramic Filter	CTC1136 CCL1046 CTF1442 CTF1442 CTF1442	R R R R	239 240 241 243 244	RS1/16S104J RS1/16S332J RS1/16S202J RS1/16S123J RS1/16S103J
CF 232 Ceramic Filter X 151 Radiator 918.5I X 231 Crystal Resona VR 154 Semi-fixed 150 AR 1 Capacitor with RESISTORS	tor 10.26MHz CSS1111 kΩ(B) CCP1213	R CAP C C C C	247 ACITORS 1 2 4 6	RS1/16S123J CCSQCH6R0D50 CCSRCK2R0C50 CCSRCH820J50 CCSRCH820J50
R 1 R 4 R 5 R 6 R 7	RS1/16S0R0J RS1/16S154J RS1/16S391J RS1/16S223J RS1/16S123J	С	9 10 11 13	CKSRYB103K25 CKSQYB104K16 CCSRCKR50C50 CEJA1R0M50 CKSRYB222K50 CCSRCH220J50
R 8 R 9 R 10 R 11 R 13	RS1/16S332J RS1/16S473J RS1/16S223J RS1/16S124J RS1/16S563J	C C C C	16 17 18 19 20	CCSRCH8R0D50 CKSRYB222K50 CKSRYB103K25 CKSRYB222K50 CKSRYB222K50
R 15 R 16 R 17 R 18 R 31	RS1/16S271J RS1/16S104J RS1/16S332J RS1/16S332J RS1/16S470J	C C C C	21 22 23 24 25	CEJA100M16 CCSRTH9R0D50 CCSRTH120J50 CCSRCH471J50 CKSRYB103K25

===	==Circuit Symbol and No.===Part Name	Part No.	=		=Circu	uit Symbol and No.===Part Name	Part No.
CCCCC	31 32 33 34	CKSRYB103K25 CKSQYB472K50 CCSRCH5R0C50 CKSQYB104K16	C	;	246 250	eous Parts List	CKSQYB473K16 CCSRCH471J50
0 0 0 0	36 51 52 54 55 56	CCSRRH201J50 CKSRYB223K25 CKSRYB103K25 CCSRCH470J50 CKSQYB223K25 CKSQYB104K16	N N H		1 2 1	Motor Unit (Main) Motor Unit (Sub) Head Assy Fuse(10A)	EXA1490 EXA1485 EXA1506 CEK1136
C C C C	57 58 59 61 62	CKSRYB472K50 CEJA330M10 CKSRYB103K25 CCSRCH270J50 CKSRYB103K25					
C C C C	63 101 102 103 104	CEJAR15M50 CEJANP100M10 CKSRYB182K50 CKSRYB682K25 CEJA2R2M50					
C C C C	105 106 107 151 152	CKSRYB103K25 CCSRCH151J50 CKSRYB103K25 CKSRYB472K50 CKSQYB104K16					
C C C C	153 154 157 158 159	CEJA3R3M50 CKSQYB104K16 CEJA3R3M50 CKSYB474K16 CEJA220M6R3					
C C C C	160 161 162 163 170	CKSQYB104K16 CKSQYB104K16 CEJA3R3M50 CKSRYB102K50 CCSRCH100D50					
C C C C	201 202 203 204 205	CCSRCH471J50 CCSRCH100D50 CKSRYB332K50 CKSQYB473K16 CKSQYB473K16					
C C C C	206 207 209 211 212	CKSQYB104K16 CCSRCH560J50 CKSQYB104K16 CCSRCH101J50 CEJA470M6R3					
C C C C	213 216 217 219 220	CKSRYB103K25 CCSRCH101J50 CEJA1R5M50 CCSRCH471J50 CKSRYB103K25					
C C C C	230 231 232 233 234	CKSRYB103K25 CCSRCH330J50 CCSRCH150J50 CKSQYB104K16 CEJA330M10					
C C C C	235 236 237 239 240	CKSRYB332K50 CKSQYB473K16 CCSRCH120J50 CKSRYB472K50 CEJAR47M50					
C C C C	241 242 243 244 245	CKSQYB104K16 CEJAR47M50 CEJAR33M50 CKSQYB473K16 CKSRYB123K25					

6. ADJUSTMENT

Connection Diagram



FM ADJUSTMENT

Modulation M:MONO MOD., 400Hz 30%(22.5kHz Dev.) or 400Hz 100%(75kHz Dev.)

S:STEREO MOD., 1kHz, L or R=30%(20.25kHz+7.5kHz Dev.)

NOTE:Before proceeding to further adjustments after switching power ON, let the tuner run for ten minutes to allow the circuits to stabilize.

		FM SSG		Displayed	Adjustment	Adjustment Method
	No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
TUN Volt	1	••••	••••	108.0	L5	DC V Meter(1): 6V
IF	2	98.1 M	60—100	98.1	T51	Center Meter : 0
ANT Coil	3	98.1 M	5	98.1	L2	mV Meter(1) : Maximum
RF Coil	4	98.1 M	5	98.1	L4	mV Meter(1) : Maximum
RF	5	129.3 M	60—80	107.9	TC1	mV Meter(1) : Minimum
Trimmer						
	6	RF Coil an				
IFT	7	98.1 M	5	98.1	T31	mV Meter(1) : Maximum
						(STEREO MODE)
ARC	8	98.1 S	40	98.1	VR154	mV Meter(1) : Separation 5dB
						(STEREO MODE)

RDS SL ADJUSTMENT

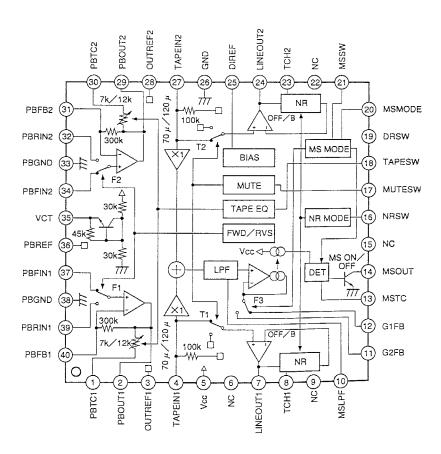
	FM S	SG	Displayed	Adjustment	Adjustment Method
No.	Frequency(MHz)	Level(dBf)	Frequency(MHz)	Point	(Switch Position)
1	104.0 S	35	104.0	VR401	DC V Meter(2): 1.75V+0.05,-0.35

7. GENERAL INFORMATION

7.1 PARTS

7.1.1 IC

CXA2559Q

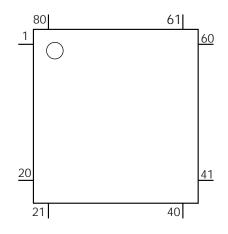


● Pin Functions(PD4972A)

	ctions(PD4972			
Pin No.	Pin Name	I/O	Format	Function and Operation
1	ASENBO	0	C	Slave power supply control output
2	Ī/S	0	С	RDS time constant control output
3	ADPW	0	С	A/D converter power
4	AVSS			GND
5	SWVDD	0	С	Grille power supply control output
6	ST	I		FM stereo input
7	AVREF1			D/A converter standard voltage
8	KYDT	I		Grille MicroComputer data input
9	DPDT	0	С	Grille MicroComputer data output
10	NC			Not used
11	TUNPDI	I		PLL IC data input
12	TUNPDO	0	С	PLL IC data output
13	TUNPCK	0	С	PLL IC clock output
14	TUNPCE	0	С	PLL IC chip enable output
15	CURRRQ	0	С	Tuner voltage FIX output
16–18	NC			Not used
19	RECIVE	0	С	During RDS data reception output
20	DILM	0	С	DILM output
21	EORR	0	С	Correct RDS error output
22	VST	0	С	Strobe pulse output for electronic volume
23	VCK	0	С	Clock output for electronic volume
24	VDT	0	С	Data output for electronic volume
25	LCDPW	0	С	LCD back light power supply control output
26	ILMPW	0	С	Illumination power supply control output
27	DRSENS	I		Door open/close sense input
28	DRSYS	0	С	Door system select output
29	FM	0	С	FM power control output
30	AM	0	С	AM power control output
31	CM	0	С	Cassette mechanism capstan motor control output
32	NC			Not used
33	VSS			GND
34	SC2	0	С	Cassette mechanism sub motor control output
35	SC1	0	С	Cassette mechanism sub motor control output
36	MSIN	I		Cassette mechanism MS sense input
37	RIMUTE	0	N	RI output port
38	MTLSW	I		Metal sense input
39	DLED	0	N	Alarm LED output
40	N̄/R	0		Normal reverse output
41	PLAY	0	С	Tape MS filter select output
42	LOADSW	1		Tape loading input
43	POS	1		Cassette mechanism position sense input
44	RES	1		Cassette mechanism reverse end sense input
45	PEE	0	С	Beep tone output
46	NES	1		Cassette mechanism forward end sense input
47	RDS57K	I		57kHzBP-OUT sense input
48	STBY	0	С	Stand-by output
49	SK	Ī		SK signal input
50	DRST	O	С	Decoder reset output
51	TMUTE	0	C	Tuner mute output
52	MDSENS	Í		Modulation detect input
53	SD			SD input
54	MUTE	0	С	Mute output
55	SYSPW	0	C	System power supply control output
56	TX	0	C	IP BUS data output
57	RX		<u></u>	IP BUS data input
58	RDSLK	 		RDS LK signal input
59	RDT	<u> </u>		RDS data input
60	RESET	i		Reset input
61	LDET	 		PLL lock sense input
		1 1		1 LE TOUR SOURS HIPAR

Pin No.	Pin Name	I/O	Format	Function and Operation
62	RCK	I		RDS clock input
63	DSENS			Grille detach sense input
64	TELIN			Cellular mute input
65	ASENS			ACC power sense input
66	BSENS	1		Back up power sense input
67	NC			Not used
68	VDD			VDD
69	X2	0		Oscillator output
70	X1	I		Oscillator input
71	IC			Connect to GND
72	XT2			Sub Clock terminal
73	TESTIN	I		Test program mode input
74	AVDD			A/D converter analog power supply (VDD)
75	AVREF0			A/D converter standard voltage input
76	SL	I		Signal level input
77	CL			Synchronizing signal input of display data latch
78	NL			Noise level input
79	MODELIN	I		Model select input
80	ALMUTE	0	С	Mute output for Detach alarm

*PD4972A

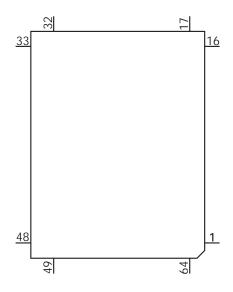


Format	Meaning
С	C MOS
N	N Channel open drain

IC's marked by* are MOS type.

Be careful in handling them because they are very liable to be damaged by electrostatic induction.

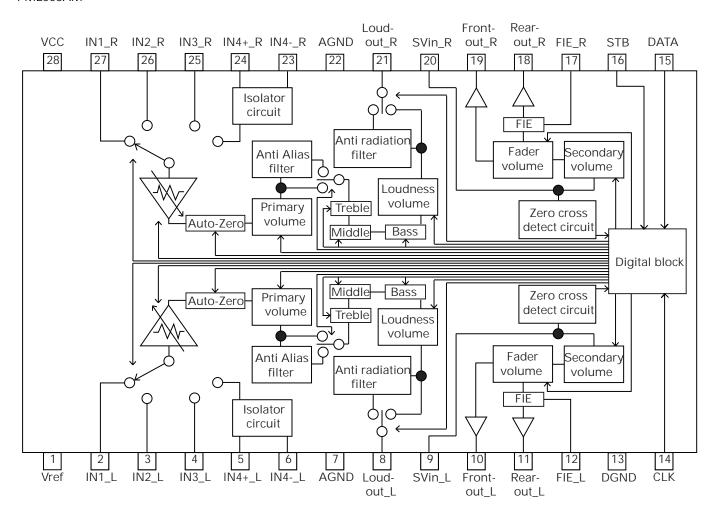
*PD6278A



	Pin	Functions	(PD6278A)
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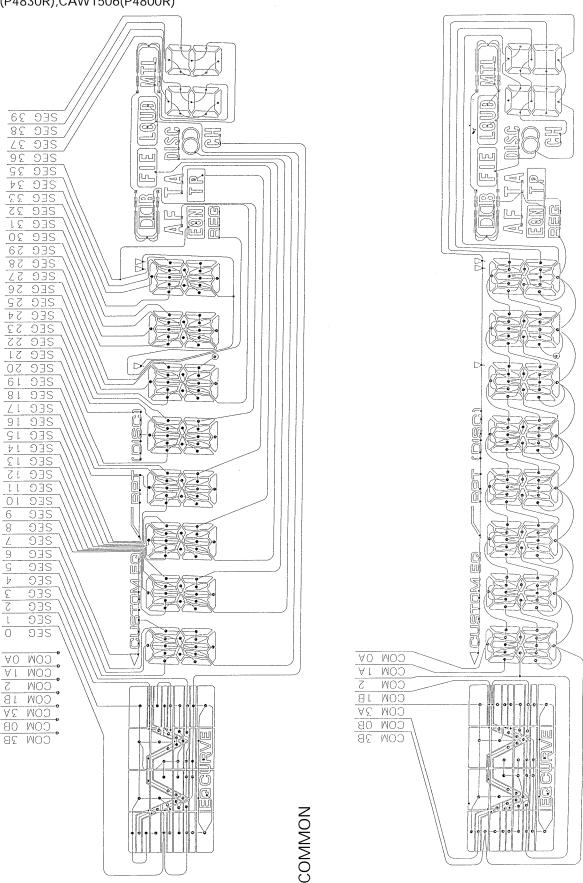
Thirt directions (i Bezrert)				
Pin No.	Pin Name	I/O	Function and Operation	
1-5	SEG4-0	0	LCD segment output	
6-9	COM3-0	0	LCD common output	
10	V3		LCD drive power supply	
11-14	KS4-1	0	Key strobe output	
15,16	KD1,2	I	Key data input (analogue input)	
17	REM		Remote control reception	
18	RXD		System micro computer UART communication data input	
19	RST	I	System reset	
20	TXD	0	System micro computer UART communication data output	
21	MODA		GND	
22	X0		Crystal oscillator connection pin	
23	X1		Crystal oscillator connection pin	
24	VSS		GND	
25,26	KD3,4	I	Key data input	
27,28	KS6,5	0	Key strobe output	
29-55	SEG39-13	0	LLCD segment output	
56	VCC		Power supply	
57-64	SEG12-5	0	LCD segment output	

PML003AM



7.1.2 DISPLAY

CAW1542(P4830R), CAW1506(P4800R)



SEGMENT

7.2 DISASSEMBLY

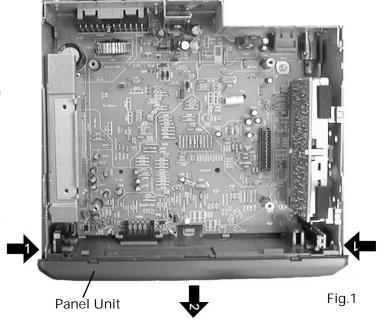
- Removing the Case(not shown)
- 1. Remove the two screws.
- 2. Remove the Case.
- Removing the Cassette Mechanism Module (not shown)
- 1. Remove the four screws.
- 2.Disconnect the connector, and then removing the Cassette Mechanism Module.
- Removing the Panel Unit(Fig.1)



Remove the two screws.



Disengage the stopper at two locations indicated and remove the Panel Unit.



Removing the Tuner Amp Unit(Fig.2)



Removing the two screws.



Removing the three screws.



Removing the screw.



Unbend the tabs at three locations indicated by arrow until straight. Remove the Tuner Amp Unit.

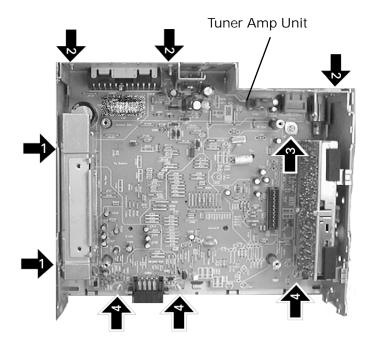
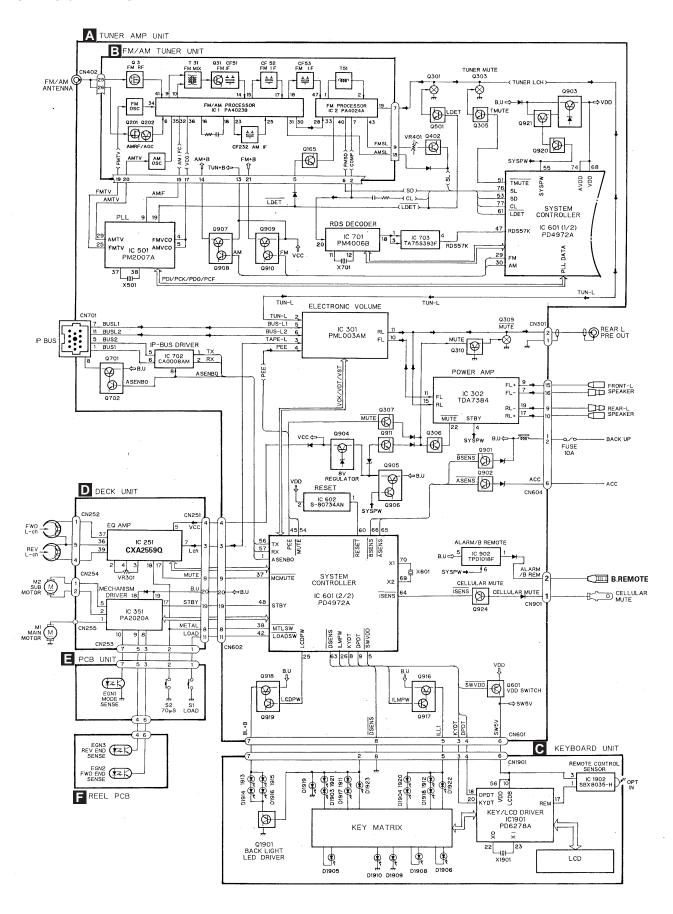
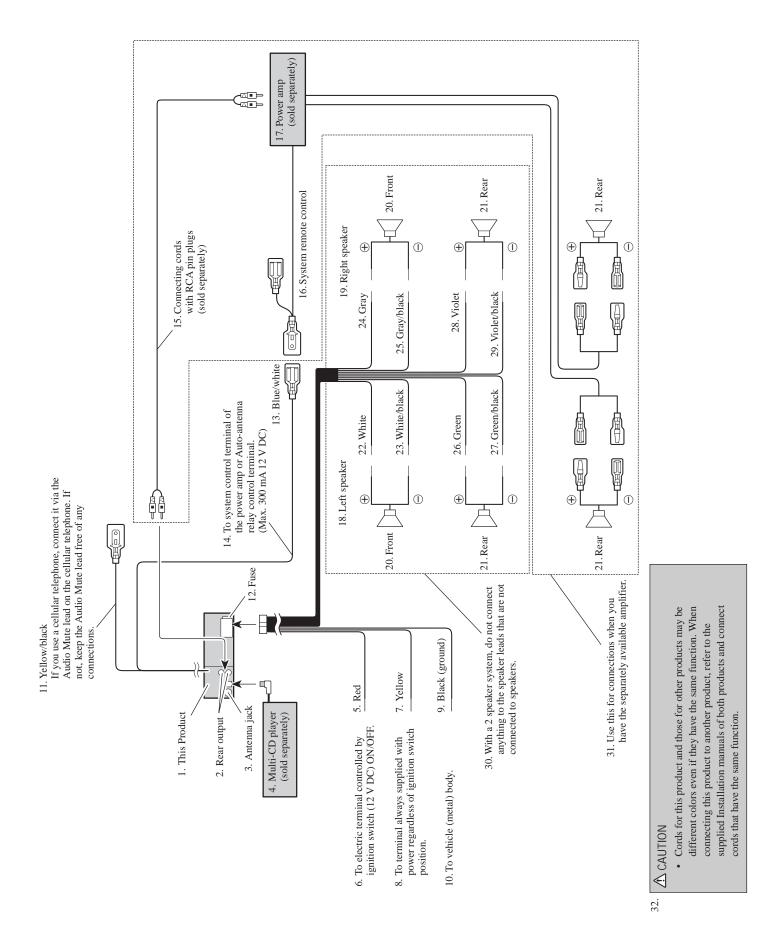


Fig.2

7.3 BLOCK DIAGRAM

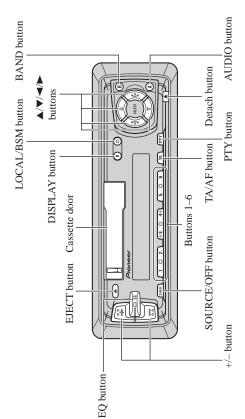


8. OPERATIONS AND SPECIFICATIONS



8.1 OPERATIONS

Head Unit



Basic Operation

To Listen to Music

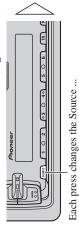
The following explains the initial operations required before you can listen to music.

Note:

Loading a cassette in this product.

Select the desired source (e.g. Tuner).

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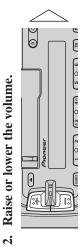
AF.

Each press of the SOURCE/OFF button selects the desired source in the following order: Tuner → Tape → Multi-CD player → AUX

- In the following cases, the sound source will not change: * When a product is not connected to this product.
 - * When no tape is set in this product.

 - * When no magazine is set in the Multi-CD player. * When the AUX (external input) is set to OFF.

Raise or lower the volume.



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Turn the source OFF.

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Hold for 1 second or more

Basic Operation of Tuner

This product's AF function can be switched ON and OFF. AF should be switched OFF for normal tuning operations. (Refer to page 13.)

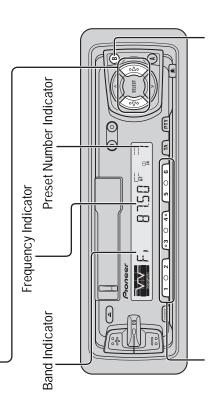
Manual and Seek Tuning

· You can select the tuning method by changing the length of time you press the $\triangleleft/\triangleright$ button.

Note:

broadcast stations. Seek Tuning starts as soon as you stop pressing the button. • If you continue pressing the button for longer than 0.5 seconds, you can skip

Note: • " \bigcirc " stereo indicator lights when a stereo station is selected.



Preset Tuning

1 th · You

buttons	ecall.
ou can memorize broadcast stations in buttons	through 6 for easy, one-touch station recall.
roadcast	, one-touc
emorize b	6 for easy
ou can me	through (

- · Up to 18 FM stations (6 in Fi (FM1), Fil (FM2) and Fill
- (FM3)) and 6 MW/LW stations can be stored in memory. You can also use the \triangle or ∇ buttons to recall broadcast stations memorized in buttons 1 through 6.

Basic Operation of Cassette Player

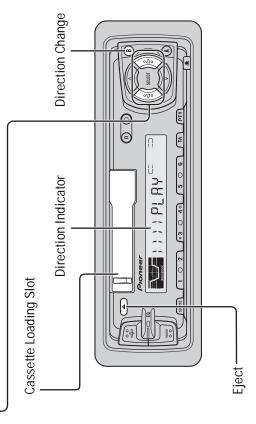
Fast Forward/Rewind and Music Search

 Each press of the ▶ button selects Fast forward or Forward-Music Search.

FF (Fast forward) → F-MS (Forward-Music Search) → Normal Playback

• Each press of the ◆ button selects Rewind or Rewind-Music Search. REW (Rewind) → R-MS (Rewind-Music Search) → Normal Playback

· Fast forward/Rewind and Music Search can be canceled by pressing the BAND button.



Note:

→ FIII (FM3) → MW/LW Fi (FM1) → FiI (FM2)

Band

· The Tape function can be turned ON/OFF with the cassette tape remaining in this product.

Basic Operation of Multi-CD Player

This product can control one or more multi-CD players. (There are some types of Multi-CD players such as "CDX-P630S" which you cannot connect more than one.)

Switching the Multi-CD Player

adapter lets you connect up to Using a multiple connection three Multi-CD players. M-CD 1 \downarrow M-CD 2 \downarrow M-CD 3 (Displayed for about 2 seconds.)

Track Search and Fast Forward/Reverse

forward/Reverse by pressing the </▶ button You can select between Track Search or Fast for a different length of time.

0.5 seconds or less Continue pressing Fast forward/Reverse Track Search

Disc Number Search (for 6-Disc, 12-Disc types)

You can select discs directly with the 1 to 6 buttons. Just press the number

corresponding to the disc you want to listen to.

• When a 12-Disc Multi-CD Player is connected and you want to select disc 7 to 12, press the 1 to 6 buttons for 2 seconds or longer.

Disc Number Rough Search (for 50-Disc type only)

This handy function lets you select discs loaded in a 50-Disc Multi-CD Player using the 1 to 5 buttons. The 50 discs are divided into five blocks, with each of the 1 to 5 buttons assigned to a block.

Select the desired block with the 1 to 5 button.

After completing a rough search, use the ▲ and ▼ buttons to select a desired disc.

Displaying Disc Titles

Disc Search

Elapsed Play Time Indicator

Track Number Indicator

Disc Number Indicator

Press the DISPLAY button, to change the Disc Title display of the current

Note:

- If you switch displays when disc titles have not been input, "NO TITLE" is displayed.
 - Repeat the preceding operation to return to the normal display.

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- · The multi-CD player may perform a preparatory operation, such as verifying the presence of a disc or reading disc information, when the power is turned ON or a new disc is selected for playback. "READY" is displayed.
- When a magazine is loaded into a 50-Disc type Multi-CD Player, information on all the discs in the magazine is read.

If you start playing a disc on a 50-Disc type Multi-CD Player before reading of information on all discs has been completed, reading of information stops part way through

- If the multi-CD player cannot operate properly, an error message such as "ERROR-14" is If there are no discs in the multi-CD player magazine, "NO DISC" is displayed displayed. Refer to the multi-CD player owner's manual.
 - "LOAD" will be displayed in the following cases:
- * If the disc is moved from the extra tray to the magazine. * If the disc in the extra tray is selected.

(Refer to the 50-Disc type multi-CD player owner's manual.)

You cannot use the "Ejecting a Single Disc", "Frequency Play", "Music Group Play", or "ABC Disc Title Search" functions with this product.

8.2 SPECIFICATIONS

General Power source 14.4 V DC (10.8 – 15.1 V allowable) Grounding system Negative type Max. current consumption 8.5 A (mounting size) 178 (W) \times 50 (H) \times 155 (D) mm Weight 1.2 kg **Amplifier** Maximum power output 40 W × 4 Preout maximum output level/output impedance 2.2 Vp-p/1 kΩ Equalizer (3 band equalizer) (Low) ±12 dB (Mid)±12 dB (High) ±12 dB Loudness contour (Low)+3.5 dB (100 Hz), +3 dB (10 kHz) (Mid)+10 dB (100 Hz), +6.5 dB (10 kHz) (High)+11 dB (100 Hz), +11 dB (10 kHz) (volume: -30 dB) Cassette player Tape Compact cassette tape (C-30 - C-90) Tape speed 4.76cm/sec.(+0.14cm/sec.,-0.05cm/sec.) Fast forward/rewinding time Approx. 100 sec. for C-60 Wow & flutter 0.09% (WRMS) Frequency response Metal: 30 - 16,000 Hz (±3 dB)

FM tuner Usable sensitivity 50 dB quieting sensitivity 16 dBf (1.7 μ V/75 Ω , mono) MW tuner Frequency range 531 – 1,602 kHz Selectivity 50 dB (±9 kHz) LW tuner Frequency range 153 – 281 kHz

Note:

 Specifications and the design are subject to possible modification without notice due to improvements.